

3. Structure

- (i) Attitudes in the Eastern Sequence are not easy to obtain from the poorly-defined bedding. Near line 00N, the unconformity and nearby bedding both strike north, but the bedding dips 74°W and the unconformity dips 75°E . The former is more likely to represent accurately the gross attitude, because the unconformity surface is apparently very irregular. Northward, the strike changes to north-east between 400N and 500N, and no dips are available. All that can be said is that the unconformity changes in attitude in the area of interest, is sub-vertical, and may be overturned near line 00N. An east facing at the unconformity is confirmed by the presence of blocks of Central Sequence lava within the basal quartz grit.
- (ii) Attitudes in the Central Sequence. The only indication is the consistent south-easterly plunge of the lava columns in the western part of the grid. Although not absolutely reliable, this suggests a general north-easterly strike and a dip near 40° north-west.
- (iii) Cleavage. Spaced to penetrative cleavage is visible in the volcanics (except in the more massive, pink to brown lavas). The attitude is in most cases subvertical, strike north-westerly.
- (iv) Faults. Several major fractures are visible on aerial photographs, but few of them seem to affect the gross distribution of geological units. The Owen Conglomerate and the Eastern Sequence appear to be faulted against the Central Sequence in the north-eastern part of the grid and minor faulting displaces the unconformity beneath the Owen Conglomerate on Proprietary Peak (not investigated in detail). The base of the Eastern Sequence is displaced near Jukes Pty No. 3 adit, and may also be displaced by other lesser faults in that area.

4. Alteration

- (i) Eastern Sequence. Most rock-types appear to contain quartz + sericite \pm chlorite \pm albite. The basal bed is intensely chloritised over most of its exposed length, this being responsible for the intense red colour of its weathered surface. The chloritisation is so intense that in the vicinity of the Jukes Pty. Nos 1 and 3 workings, only quartz grains remain in a chloritic matrix.
- (ii) Central Sequence. Several zones have been delineated. To the west, sericite occurs throughout, most of these rocks probably also contain a little chlorite which is usually not visible within some centimetres of the